Moamen Hraden

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Biography

As a software developer, I am fascinated by solving complex problems and exploring new technologies. My focus is on clean, structured code and efficient architectures. With experience in full-stack development, embedded systems, and DevOps, I am always looking for innovative solutions and optimization opportunities. My goal is to create software that is not only powerful but also maintainable and elegant in the long run.

Professional Experience

Java Developer | Primion Technology GmbH   Jan 2023 − Present
- Designed modular architectures for an access control system
- Developed and implemented a workflow management system
- Created a configuration service using Angular and Java RESTful web services

Software Engineer | Primion Technology GmbH   Jan 2022 − Jan 2023
- Co-developed a PSIM (Physical Security Information Management) system using Spring Framework and JavaFX
- Maintained and enhanced a hybrid PSIM mobile app based on Cordova
- Designed and implemented an OPC UA driver for the PSIM system using .NET
- Developed DevOps processes for Java/Maven and .NET/MSBuild projects

Thesis | Primion Technology GmbH   Apr 2021 − Oct 2021
- Compared various software architectures regarding communication mechanisms such as multi-threading, RPC, IPC, and MQTT, including resource and performance costs for a firmware platform running on an access controller and managing access points
- Analyzed the advantages and disadvantages of Docker usage in different architectures and associated additional costs

Supervisor Prof. Dr. Thomas Eppler
Second Examiner Dr. Stefan Huster

Intern | Primion Technology GmbH   Nov 2020 - Apr 2021
- Developed a migration tool to transfer an in-house ticketing system to Jira Cloud using Jira REST API
- Containerized access control and time tracking systems to enable quick and easy setup of the test environment
- Designed of a customized Git workflow adapted to the team, work model, and release process

Fullstack Web Developer | Vinnova   Jan 2024 - Jun 2024
- Co-developed a software platform for automated detection, mapping, and documentation of surface damage on railway tracks, highways, and bridge structures using Node.js (Express Framework) and ReactJs

Tutor | Albstadt-Sigmaringen University   10/2020 − 01/2021
- Supervised a practical course on discrete event systems, including student support, guidance in practical exercises, and assessment of results
- Under the supervision of Prof. Dr. Andreas Knoblauch

Education

B.Eng. Technical Computer Science | Albstadt-Sigmaringen University   Mar 2018 - Oct 2021
Relevant coursework and knowledge:

- System Design: Operating Systems, Software Engineering, Mobile Systems & Cloud, Distributed Systems, GUI Development, Databases
- Machine Learning & AI: Applied Mathematics, Artificial Intelligence
- Web Development: Frontend (HTML, CSS, JavaScript) and Backend (Node.js)

Skills

- Software Architecture and System Design
  - ‣ Full-Stack Web Development
  - ‣ Single-Page Applications (SPA) with React.js, Angular, and Svelte/SvelteKit
  - ‣ Classic MVC with ASP.NET Core (Razor Pages) and HTMX
- Backend Development with Spring Framework, ASP.NET Core, and Node.js
- Systems Programming: Rust
- Desktop and Mobile Development: Ionic, Flutter, JavaFX, and AvaloniaUI

Languages

- **Arabic**: Native speaker
- **German**: Fluent
- **English**: Fluent